Powered by

User Manual

English

This manual covers all the details and explanations of the TEASI CORE.

VERSION 13-20-04-2017_F01

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The use and operation of navigation systems

Attention! Don't operate with the device while driving. Even the smallest and shortest distractions from road or traffic for you and other road users - even at slow speeds – may have devastating consequences.
Type in the destination before starting your journey and start the navigation system before you start driving.
If you have to change the route or the settings while driving, you should better stop for it.

Teasi Core

Teasi Core is an intelligent bike computer which can be connected via Bluetooth® with your smartphone (free TAHUNA App for Android and iOS) or external fitness sensors and displays basic values as well as navigation instructions, training data and incoming calls.

This product is provided with a built-in battery that can be charged with a charger above DC 5V, 500 mA or PC USB interface when the battery is too low to supply power to Teasi Core.

This product is provided with a monochrome display screen, its backlight can be turned on manually at night for better vision, and turned off at day to save power. You can also set backlight into auto on/off mode in the settings menu.

Delivery contents:

- Device Teasi Core
- Speed- & cadence sensor
- 4 nylon straps and 1 rubber band for the sensor
- Wheel and pedal magnet
- HR mounting bracket with 2 cable ties and adhesive label
- USB cable
- Quick Start Guide
- Note for connecting Teasi Core to Tahuna app

1. Getting to know your Core

1. USB charging interface/USB rubber stopper	2. Long press: power on/off short press: backlight on/off
3. Reset	4. Buzzer
5. Auto backlight on/off induction window	6. Mounting for HR bracket

A/B/C shown in the figure above are only the functional buttons of this product, please see the table below for their specific functions:

Buttons	Normal mode	Setting mode
△	Short press: change display mode Long press 1 sec: go into settings picture	Short press: change option, backward/left direction Long press 1 sec: exit the settings picture
○	Long press 1 sec: change to App working mode Long press 2 sec: go into pair sensor mode	Short press: Change digit/confirm (Yes/No)
□	Short press: start/pause recording Long press: stop recording	Short press: select next digit or option/right direction
Buttons	**Pairing sensors mode**	**Connect with APP mode**
△	Long press 1 sec: exit pair sensor picture	Short press: exit smartphone search
□	Short press: start search sensors/search next sensor/exit if both sensors are connected	Short press: start/pause recording Long press 1 sec: stop recording

2. Charging the Teasi Core

1. Pull up the USB rubber stopper from the USB charging interface (1).
2. Plug the small end of the USB cable in the USB charging interface.
3. Connect the large end of the USB cable to a 5V AC adaptor or a USB port on a computer.
4. Charge the Teasi Core for the first time completely, around 4 hours. The average charging time is 1.5 hours. When the battery is completely discharged, the device may only turn on after the battery has been charged for some time. When the device is turned off, a progress bar on the display indicates the charging progress during charging.

3. Speed/Cadence Sensor

Wireless speed/cadence sensor

Wheel magnet

Pedal magnet

Bluetooth name: Teasi SPC

4. Using Bluetooth Sensors

4.1 Speed/Cadence Sensor

a) There is a CR2032 button cell inside the product to provide power and its service life is 4 months in general. Teasi Core or Tahuna will fail to detect sensors when sensor cell is dead or sensor is damaged. Sensor cell can be replaced according to the figure below.

Please note: when you use this product for the first time, please remove the battery hatch to remove the insulation film.

b) This product can be connected to any equipment conforming to BLE 4.0 standard protocol and transmit data to it.

c) This product will get into sleep mode after wheels stop spinning for 5 min in order to save power; it will also get into sleep mode when Tahuna or Teasi Core disconnects from sensor. When it is used again, bike wheels shall be made spun to activate sensor, so that the product can be searched by Tahuna or Teasi Core.

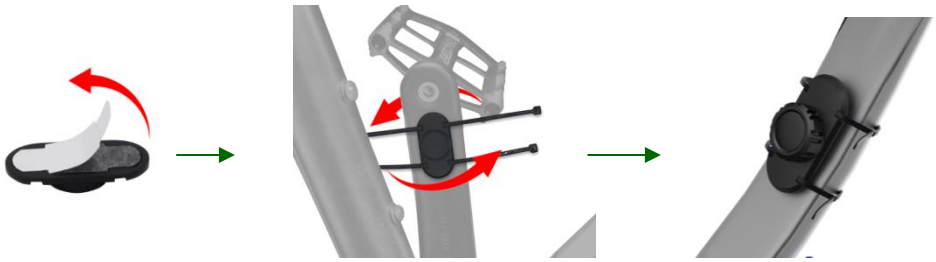
5. Installation of Teasi Core on your bicycle

Fix the Teasi Core on the bracket as shown in the figure below.

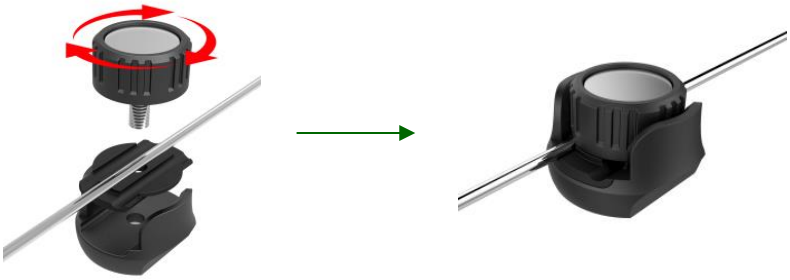
6. Installation of speed/cadence sensor

Install pedals magnet (RPM) and wheel magnet (speed) in corresponding positions as shown in the figure below:

Tear the 3M adhesive on the back of pedal magnet off and stick pedals magnet inside the pedal connecting arm, and then tie up the 2 nylon straps to fix it, and cut unnecessary part down.

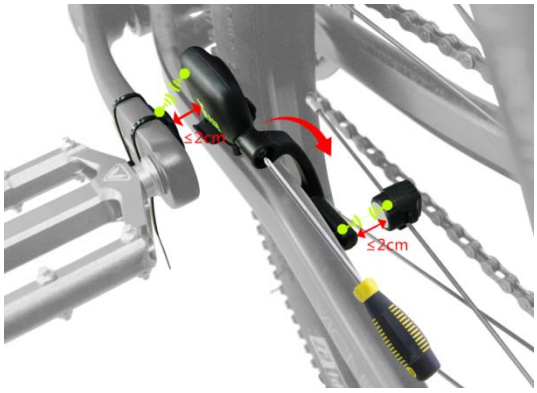


Install the wheel magnet on wheel spoke and tighten it, so as to ensure that it will not slide when the wheel is spinning at a high speed.



Fix speed/cadence sensor on corresponding position of bike as shown in the figure, and then tighten it with 2 nylon straps.

Then, fix it again with a rubber band.



Please note: the centers of pedal magnet and wheel magnet shall be aligned with corresponding induction part of sensor and shall not be deviated from it too far; the magnets shall not be more than 2 cm from the induction part, since distance larger than 2 cm will make it fail to receive the wheel spinning signal. Screws can be loosened with screwdriver to adjust the distance between the extendible arm of inductor and spoke magnet.

7. Teasi Core has 2 working modes

a) **App working mode:**
Teasi Core is only a display equipment that needs to pair and connect to app, and all its data is from app push; in this mode, speed/cadence sensor and heart rate monitor shall pair with Teasi Core and connect to it.

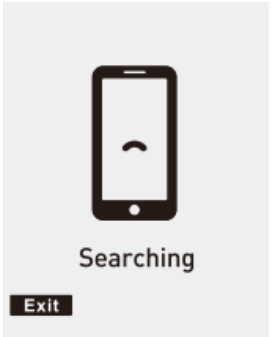
b) **Bike computer working mode:**
Teasi Core is only a bike computer that is not connected to app; in this mode, speed/ cadence sensor and heart rate monitor shall pair with Teasi Core and connect to it.

7.1 App working mode

7.1.1 Connect to Tahuna

You can scan the QR code displayed on this equipment when it is started first time or the QR code printed on the package to enter the website, and download and install the Tahuna app.

This product will search to connect with Tahuna automatically after it is started, as shown in the left of the following figure. If you do not need to connect to Tahuna or Tahuna has stopped working, you can press the far left button to EXIT:



Teasi Core starts to connect to Tahuna

When the app detects a new version of Teasi Core to update to, there will be a dialogue box of update prompt given on the app. You can click the update button on the app to make Teasi Core update automatically. The following update progress bar will be shown.

Notice:
Please make sure your phone and Teasi Core have enough power before updating, keep Bluetooth connection smooth in updating process, and do not take your phone away from Teasi Core. If update does not progress for a long time or power fails, or Bluetooth signal is lost in updating process, Teasi Core will return to its old version and will update again when it is connected to the app next time.

You need to turn the Bluetooth of your smartphone and the connect switch of Tahuna on, so that Tahuna can seek to connect with Teasi Core. The main interface will be entered after the successful connection and the successful connection symbol as shown in the figure below will be shown; at the same time, you need to connect Tahuna with speed/cadence sensor and heart rate sensor.
When all connections are finished, Teasi Core can start to work.

Successful connection of Teasi Core and Tahuna

Please note: You need to make sure that Teasi Core or sensors are not connected to other Bluetooth equipment and can be effectively connected to Tahuna.

7.1.2 Speedometer Display of Teasi Core

Speedometer

	Successful connection to Tahuna
90%	Smartphone battery
	Smartphone GPS on
13:43	Current time
	Equipment battery
	Maximum speed
	Current speed
ODO 01031 KM	Accumulative mileage
AC TIME 01:23:15 DST PES KM 12.3	After the equipment is connected to Tahuna, the 2 data types can be changed on the app in the speedometer view.

7.1.3 Page Display of Teasi Core

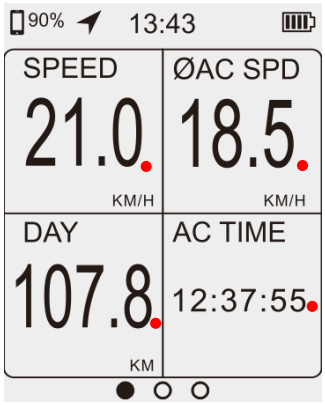
Display page of Teasi Core is divided into: Speedometer, 2-4-6 segment display interface, navigation display interface.

Users can change the data type they want to display on the corresponding page of the app for the two data fields below (speedometer and navigation picture), and the data on 2-4-6 interface. Data fields with red dots in this document can be changed.

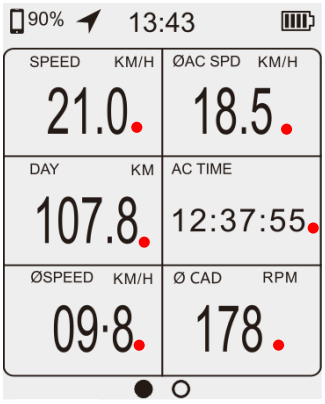
Users can select corresponding 2-4-6 segment display mode on app computer page according to their habits.

Navigation page will only be displayed after users set their destination on the app and enable navigation feature.

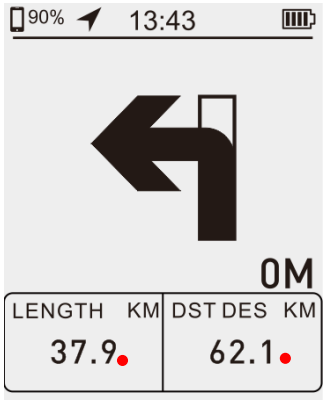
2-segment Display Page



4-segment Display Page



6-segment Display Page



Navigation Display Page

This product also has notification feature, for example, phone and SMS notifications which you can set on the app. However, this feature can only be used when Teasi Core is used together with app. Examples are shown below:

Phone

SMS

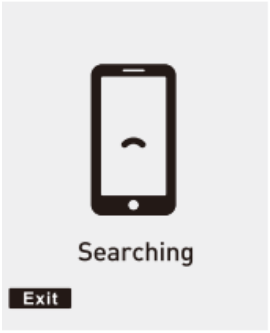
This product will enter standby mode automatically after riding is stopped for 3 min, as shown in the figure below. It will return to the previous interface automatically after riding starts again.

Standby Mode

7.2 Bike Computer Mode

This product will seek to connect with Tahuna after it is started, as shown in the figure below; if you do not want to connect with Tahuna or Tahuna has stopped working, you can press the far left button to EXIT and enter bike computer mode.

If Teasi Core has connected to Tahuna successfully and is in app working mode currently, users can disconnect the sensors in the sensors page of Tahuna to return to the searching mode; then select EXIT to exit and enter the independent working mode of the bike computer.



At this moment, it is needed to pair speed/cadence sensors and heart rate monitor and connect them. The sensors connect automatically when they are activated and found. The sensors connect automatically when they are ready for operation and active.

Speed & Cadence Sensor: The magnets must pass the sensor surfaces to activate the sensor.
Heart rate sensor: Must have secure skin contact with lightly moistened contact surfaces.

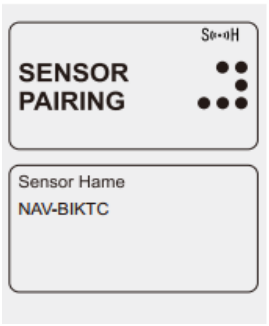
Connection for speed/cadence sensors or heart rate will be shown on the upper right symbol on the display:

S H	S	Speed/cadence sensor is connected
	H	Heart rate sensor is connected

7.2.1 Manual pairing method for sensors and Teasi Core

If sensors won't connect automatically, you can connect them manually.
Make sure that the sensors have been activated for operation.
Speed & Cadence Sensor: The magnets must pass the sensor surfaces to activate the sensor.
Heart rate sensor: Must have secure skin contact with lightly moistened contact surfaces.

Long press for 2 sec and then release it after hearing the buzzer sounds twice, then the Teasi Core will enter the mode to pair and connect with sensor; after the following interface is shown, short press to search sensor; when one sensor is searched, its name will be displayed and the equipment will connect to it automatically. Short press at this time to start searching the next sensor. After the 2 sensors are searched, short press to exit sensor searching mode; if it only needs to connect to one sensor, long press for 1 sec after searching, and then exit sensor pairing interface after hearing the buzzer sounds once. Then, this following connection status symbol will be shown on the screen, showing that Teasi Core has been successfully connected to sensors, and the bike computer can start to work independently. However, the wheel size shall be set. See settings for wheel size setup.



Teasi Core and sensors pairing interface

Working interface entered after pairing is completed

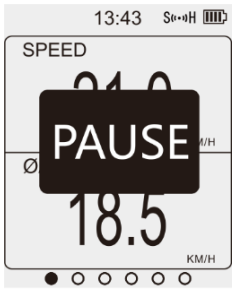
In bike computer working mode, some data may not be displayed, for example, data is displayed ——, the reason is that:

1. These data are all from the app, and the app is not connected when Teasi Core is working independently, so there is no data source.
2. Speed/cadence sensor and heart rate monitor are not paired and connected to each other, so there is no data source.

When bike computer is working, users can record and store sports data selectively. Short press to start record and short press again to suspend recording; long press for 1 sec, and then release it after hearing the buzzer sounds once to stop recording; a new entry of record is generated. When the equipment is connected to Tahuna again, Tahuna will acquire this data and calculate it.

7.2.2 Start and stop of riding

When Teasi Core is prepared for work, the prompt box as shown in the left figure will be displayed on the screen; when riding is suspended, the prompt box as shown in the right figure will be displayed on the screen.



7.3 Settings menu

In normal working state, long press for 1 sec (release the button after hearing Buzzer sounds once) to enter settings menu where corresponding parameters can be set; refer to button function list for button operation mode and function list. Exit settings menu: long press for 1 sec (release the button after hearing buzzer sounds once) to exit settings menu.

7.3.1 Basic settings

***24-Hours time*:** 24-hour time notation (ON) or 12-hour time notation (OFF).
***Clock*:** Current time can be changed in bike computer mode.
***Date*:** Current date can be changed in bike computer mode.
***Language*:** Teasi Core supports 5 languages: English, German, French, Dutch and Czech.
***Sound*:** Steering notification tone and warning tone can be turned off.
***Auto backlight*:** Auto backlight control can be selected in settings menu. When auto backlight is selected, the backlight will be turned off automatically at day and be turned on at night.
***Units*:** Choose between metric and imperial system in bike computer mode.

***Perimeter*:** Wheel perimeter, see table in *7.3.2 Wheel size setting*.
***Clear pair info*:** Eliminate Bluetooth pairing information.
***Clear sport data*:** Eliminate all sports data except for ODO data.
***Reset to default*:** Reset to factory defaults, settings data will be cleared after resetting to default.

7.3.2 Wheel size setting

In the table below, you can find the wheel size (L) of your tire, or the actually measured wheel size (L) of your bike.
How to measure wheel size (L): in order to obtain accurate measurement, you can make a tire roller. Place the valve stem of the tire in normal pressure down, and mark on the ground. With the pedaling load of rider applied, make the tire roll one circle (until the valve steam returns down on the ground) in a straight line. Then mark the position of valve stem and measure the distance in millimeter dimension.

*** The following table is for your reference.**

Tire size	L (mm)	Tire size	L (mm)	Tire size	L (mm)
12 x 1.75	935	26 x 1(59)	1913	650 x 20C	1938
14 x 1.50	1020	26 x 1(65)	1952	650 x 23C	1944
14 x 1.75	1055	26 x 1.25	1953	650 x 35A	2090
16 x 1.50	1185	26 x 1-1/8	1970	650 x 38A	2125
16 x 1.75	1195	26 x 1-3/8	2068	650 x 38B	2105
18 x 1.50	1340	26 x 1-1/2	2100	700 x 18C	2070
18 x 1.75	1350	26 x 1.40	2005	700 x 19C	2080
20 x 1.75	1515	26 x 1.50	2010	700 x 20C	2086
20 x 1-3/8	1615	26 x 1.75	2023	**700 x 23C**	**2096**
22 x 1-3/8	1770	26 x 1.95	2050	700 x 25C	2105
22 x 1-1/2	1785	26 x 2.00	2055	700 x 28C	2136
24 x 1	1753	26 x 2.10	2068	700 x 30C	2146
24 x 3/4 Tubular	1785	26 x 2.125	2070	700 x 32C	2155
24 x 1-1/8	1795	26 x 2.35	2083	700C Tubular	2130
24 x 1-1/4	1905	26 x 3.00	2170	700 x 35C	2168
24 x 1.75	1890	27 x 1	2145	700 x 38C	2180
24 x 2.00	1925	27 x 1-1/8	2155	700 x 40C	2200
24 x 2.125	1965	27 x 1-1/4	2161	29 x 2.1	2288
26 x 7/8	1920	27 x 1-3/8	2169	29 x 2.3	2326

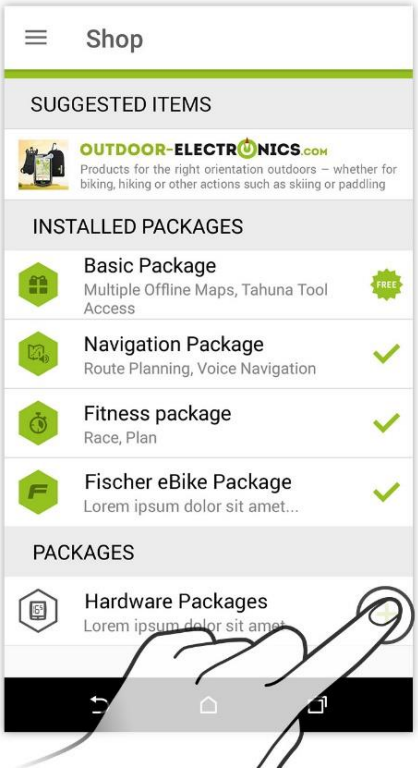
Please note: No matter which working mode is in, bike computer or app mode, it is needed to set wheel size on bike computer or app; otherwise, the data will not be accurate.

8. Connect the Teasi Core to the Tahuna App

Open the Tahuna application.
Please make sure first that you have logged in and you have a stable internet connection.

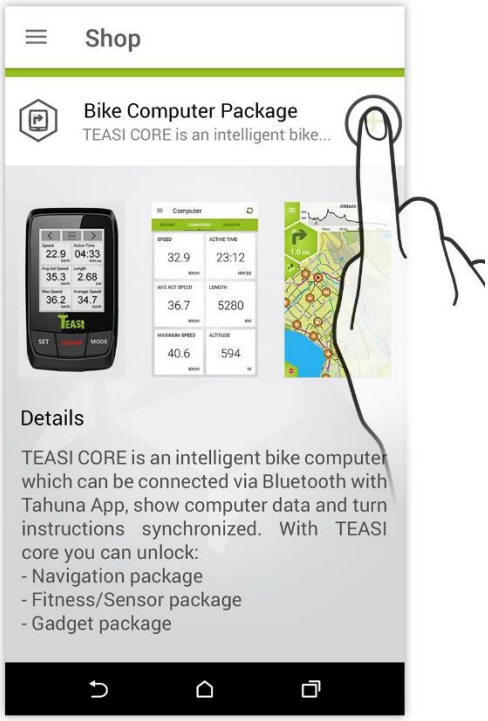
Enter into the Shop menu by **tapping on the plus sign button** ( ) at the bottom right side of the screen. Always follow the plus sign in the next steps.

In the Shop menu, **tap on the plus sign**, next to Hardware Packages to see what kind of extra hardware options are there.



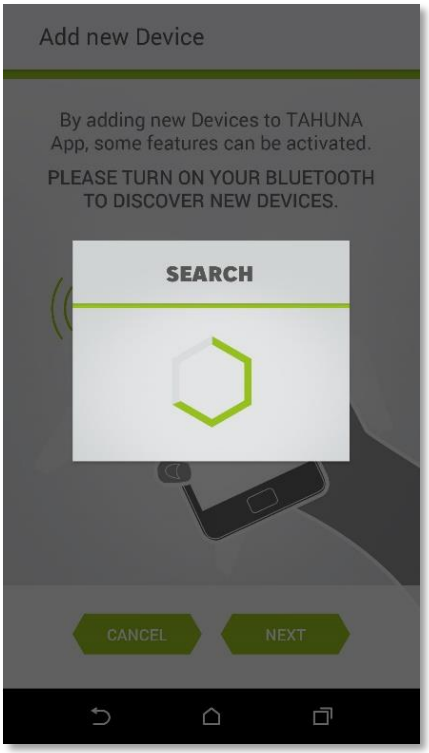
In Hardware Packages, you can choose Bike Computer Package by **tapping on the plus sign** next to them. In this case, choose Bike Computer.

At the next screen, details about the product are shown. **Tap on the plus sign** to install Bike Computer Package.



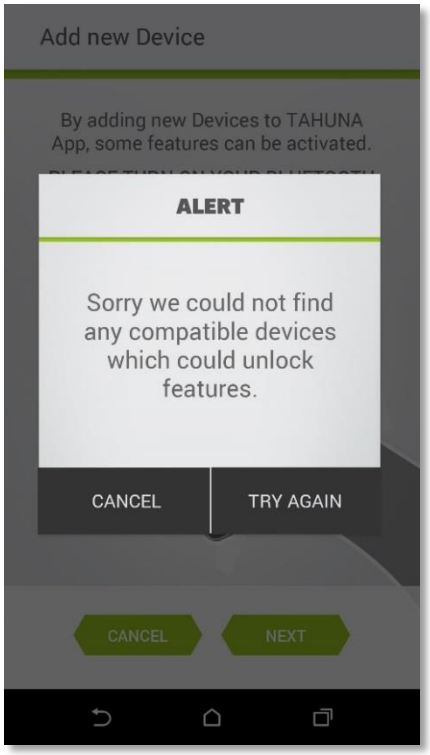
In order to connect Bike Computer with the Tahuna Application, Bluetooth must be turned on on your phone. **Tap on 'Next'** when Bluetooth is ready.

The App will search for devices.

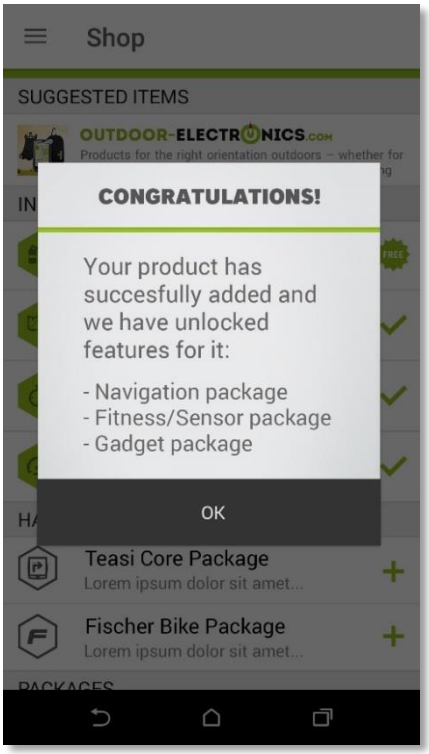


Two outcomes are possible:

Bluetooth connection **failed**. In this case, you should check, if Bluetooth connection is really turned on or not.



Connecting devices have been **successful**.



New features have been unlocked with this step:

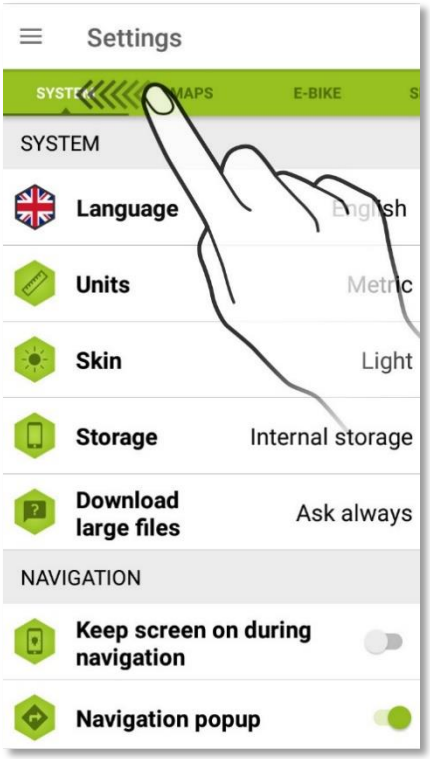
- Navigation package,
- Fitness/Sensor package,
- Gadget package.

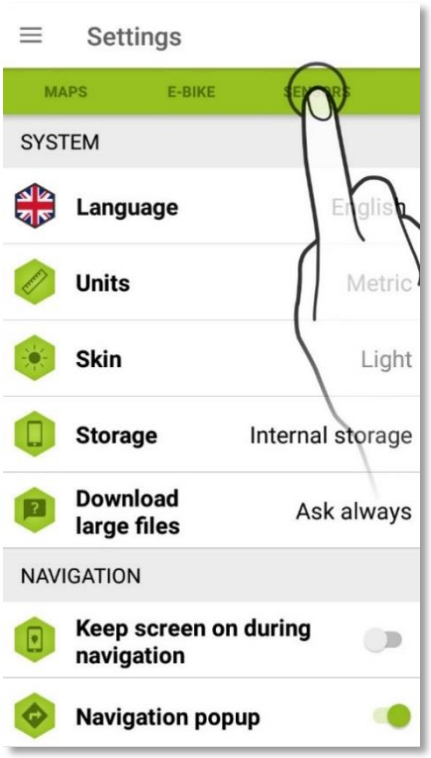
9. Connection

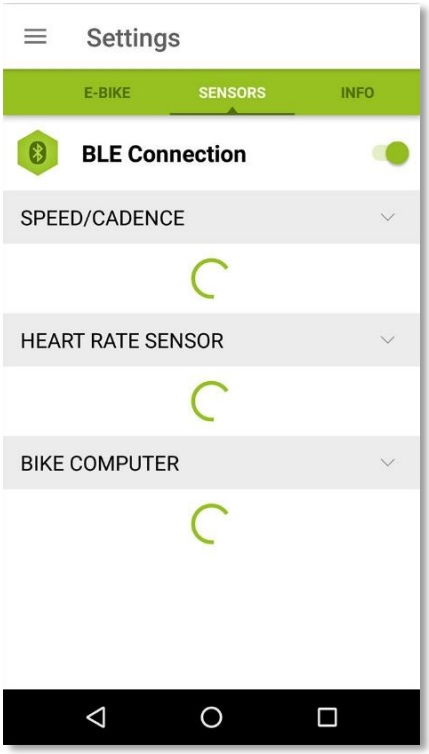
The starting screen of the application is a map. If you would like to get to the main menu, **tap the button with 3 lines** at the top left side of the screen.

The application's Main menu will appear. **Tap on the gear wheel** at the bottom left side of the screen to open the Settings menu.

The content of Settings menu appears. It has a submenu panel. **Choose Sensors by sliding the submenu panel.**



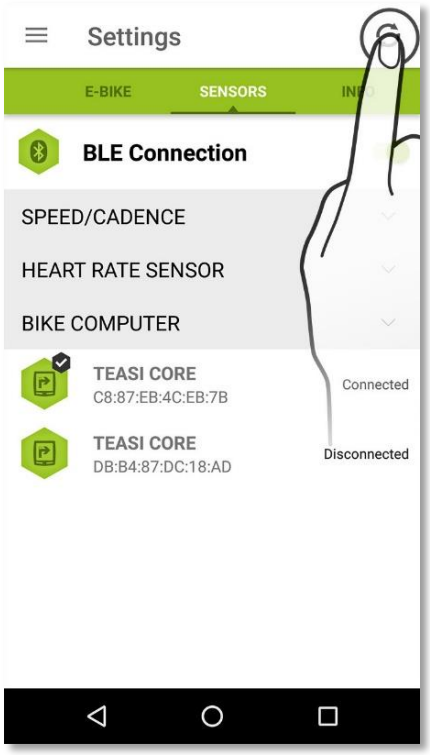




Please make sure **Teasi Core is switched on** and searching for smart phones. The app will do a scanning whether there is any BLE device nearby.

After the scans, it will show what it has found. Search for the sign ‘TEASI CORE’ with a green icon. It is disconnected on default. Tap on it, so it can start connecting.

If your Teasi Core cannot be found, use the Reset arrow to update the status of the search.



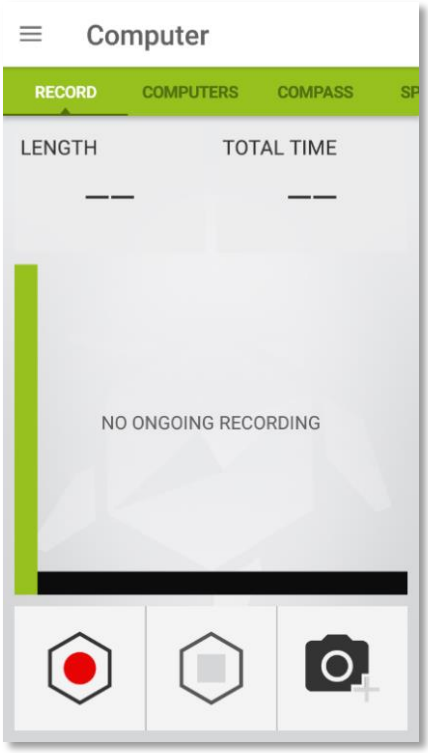
Sensors connect automatically to the app when they are ready for operation and active.

Speed & Cadence Sensor: The magnets must pass the sensor surfaces to activate the sensor.
Heart rate sensor: Must have secure skin contact with lightly moistened contact surfaces.

The Teasi Core hands over the sensors to the app as soon as the Teasi Core is connected to the app. When the app is disconnected, the Teasi Core connects again directly to the sensors.
The sensors can also be used with the app without Teasi Core.

10. Computer layout and selection change

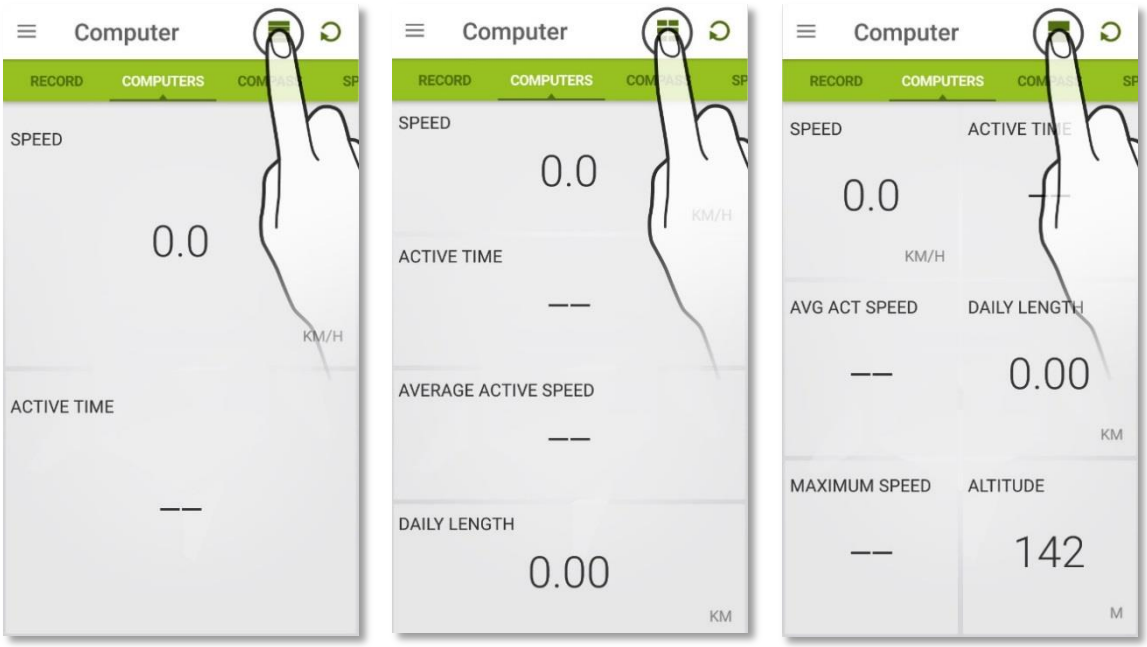
Tap Computer in the main menu.



Computer menu appears. It has a submenu panel, **Tap Computers** menu point.

There is a button next to the reset arrow called the **Layout button**. It can split up the show of the data into groups of 2, 4 or 6 parts. The button always shows the next layout type.

You can change the computer type by long pressing on the box you want to modify and selecting from the list. Every information is then synchronized with Teasi Core.



11. Navigation (turn instructions to Teasi Core)

During the navigation in the Tahuna App, the next turning instruction will be shown. When connection has been established, the arrows will appear also on the screen of the Teasi Core.

Furthermore, other related data in the Computer section will appear also on Teasi Core, too.

12. Troubleshooting

Problem	Solution
Device stops responding	Press reset button on the rear side. This does not erase your data or settings.
Device does not reconnect to app	Turn device off and on again, go to the settings in the app and press on the Sensors tab. Make sure, that Bluetooth is enabled in your telephone.
Speed/cadence sensors are not found in bike computer mode	Make sure, that sensors are connected properly. Magnets must be near enough the sensors. Turn the wheels to wake the sensors up. Pair the sensors as explained in 7.2.1.
Speed/cadence sensors are not found in app mode	Make sure, that Bluetooth is enabled in your phone and you have activated the Bike Computer package as explained in 8. Go to the settings and Sensors, turn the device off and on and wait until the device is found.
Firmware update gets stuck	Close the app and wait until the update window on the Core disappears. Reset the device, if the update window won't disappear. Check the WiFi connection on your phone, then start the app again and repeat the update process.
Clearing user data/Restore factory settings	Hold button A to open the settings screen. Tap button C and choose "Reset to default", press button B to confirm.
Device does not power on	Charge the battery completely. If the battery is empty, the device may only turn on after some hours of charging.

13. Specifications

Display	Approx. 5.08 cm / 1.87" FSTN; resolution: 128 x 60 pixels
Battery life	Max. 85 hours; using with continuous background illumination: approx. 35 hours
Battery type	Li-Poly with 680 mAh
Charging time	1.5 hours
Dimensions / Weight	81 x 46 x 12 mm / 50g
Input & Output	4 buttons + 1 reset button; Bluetooth 4.0 SMART; buzzer; light sensor; background light
Memory	MCU 512k flash and external flash 2MB
Sensors	Speed/cadence, heart rate (not included)
Water rating	IPX5
Working temperature	-10° C to 60° C

14. Appendix

14.1 Data Fields

AC TIME	Active Time
ALT	Altitude
AVL TM	Arrival Time
BAT DES	Remaining Battery at Destination
BATT	Device Battery
CAD	Cadence
CAL	Calories
CL LEFT	Climb Left
DAY LNG	Daily Length
DST DES	Distance to Destination
DST DIF	Distance difference
DST NXT	Distance to Next Turn
DST TOU	Distance to Tour
E ASS LVL	Assist Level
E BATT	E-bike Battery
E CURR	Current
E ODO	E-bike Odometer
GEAR	Gear
GRADE	Grade
HEAD	Heading
HMN PWR	Human Power
HR	Heart Rate
LAT	Latitude
LENGTH	Length
LONG	Longitude
MAX ALT	Max. Altitude
MAX CAD	Max. Cadence
MAX CAP	Max. Capacity
MAX HR	Max. Heart Rate
MAX PAC	Max. Pace
MAX SPD	Max. Speed
MTR PWR	Motor Power
ØAC SPD	Avg. Active Speed
ØCAD	Avg. Cadence
ØHR	Avg. Heart Rate
ØPACE	Avg. Pace
ØSPEED	Avg. Speed
PACE	Pace
PRESS	Pressure
RANGE	Range
RNG DES	Remaining Range at Destination

User information/Contact

If your device has a defect or you have problems with it, please contact our Service & Support Centre.

If you need to send your device to us, please attend to the following points:

1. Whenever possible, use the original packaging.
2. Add a detailed error description
3. Add your full name and address and a copy of your purchase receipt.
4. Stamp and send the package to us (sufficient postage).

Address of our Service Center:
First Service Center, Kleine Düwelstr. 21, DE-30171 Hannover

You can get help at: **http://support.teasi.de**

Declaration of Conformity

Hereby Baros GmbH, declares, that the device TEASI Core / NAV-BIKTC / NAV-BIKTS, is in compliance with the essential requirements and other relevant regulations of Directive 2014/53/EU.

The Declaration of Conformity can be found at: www.a-rival.de

Guarantee

Please keep the proof of purchase for this device for the entire duration of the guarantee period, as it must be produced in the event of any claim.

You (as the end user) receive a 36 months guarantee from the date of sale. The article has been manufactured using the most modern production methods and subjected to strict quality controls.

Please contact only the manufacturer (not the dealer where you purchased it) in the event of any defects during the guarantee period.

http://support.teasi.de

The guarantee does not cover damage caused by improper use or external influence (water, falling, sunlight, breakage or impact).

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